

1 1. A portable apparatus for delivering constant DC power in vehicles, on boats,
2 and in the field, comprising:

3 a base plate having a first plurality of cushioning means having
4 elastomeric mounting means for placement upon a substantially flat horizontal
5 surface;

6 a permanent magnet DC generator, having armature means and
7 commutation means, disposed upon said base plate at one end thereof;

8 a fluid-powered internal combustion engine disposed at the other
9 opposite end of said base plate and interconnected with said permanent
10 magnet DC generator via a crankshaft disposed parallel to said base plate, so
11 that DC power is generated by said permanent magnet generator when said
12 fluid-powered internal combustion engine is running;

13 flexible coupling means for coupling said permanent magnet generator
14 with said crankshaft means;

15 said fluid-powered internal combustion engine having:

16 a fuel tank means with a first tank for providing fuel for
17 running said internal combustion engine,

18 a carburetor for mixing said fuel with ambient air,

19 a starter for starting operation of said internal combustion
20 engine,

1 a combustion chamber for combusting said mixed fuel,
2 an exhaust means for venting gases into the ambient,
3 a muffler for minimizing noise generated during operation
4 thereof, and

5 a second plurality of cushioning means having elastomeric
6 mounting means for placement upon said substantially flat surface;

7 semiconductor circuit governor means having a plurality of Zener diodes
8 and capacitor means electrically interconnected with said DC generator for
9 limiting the RPM output of said internal combustion engine to control, in turn,
10 the voltage output from said permanent magnet generator;

11 a heat exchanger fixedly attached to said permanent magnet generator
12 and having a fin assembly with a plurality of fins for dissipating heat created
13 incident to said internal combustion engine running and generating power from
14 said permanent magnet generator; and

15 port means for electrically connecting external appliance means for using
16 said generated DC power.

17 2. The portable apparatus recited in Claim 1 wherein said base plate includes
18 a housing configured to enclose said permanent DC generator means coupled
19 with said crankshaft means.

20 3. The portable apparatus recited in Claim 1 wherein said heat exchanger

1 running said internal combustion engine,

2 a carburetor for mixing said fuel with ambient air,

3 a starter for starting operation of said internal combustion

4 engine,

5 a combustion chamber for combusting said mixed fuel,

6 an exhaust means for venting gases into the ambient,

7 a muffler for minimizing noise generated during operation

8 thereof, and

9 a second plurality of cushioning means having elastomeric

10 mounting means for placement upon said substantially flat surface;

11 semiconductor circuit governor means having a plurality of Zener diodes

12 and capacitor means electrically interconnected with said DC generator for

13 limiting the RPM output of said internal combustion engine to control, in turn,

14 the voltage output from said permanent magnet generator;

15 a heat exchanger fixedly attached to said permanent magnet generator

16 and having a fin assembly with a plurality of fins and heat sink means for

17 dissipating heat created incident to said internal combustion engine running

18 and generating power from said permanent magnet generator; and

19 port means for electrically connecting external appliance means for using

20 said generated DC power.

includes heat sink means.

4. The portable apparatus recited in Claim 1 wherein said fuel tank means includes a second, auxiliary tank in fluid communication with said first tank for providing supplemental fuel for running said internal combustion engine.

5. A portable apparatus for delivering constant DC power in vehicles, on boats, and in the field, comprising:

a base plate having a first plurality of cushioning means having elastomeric mounting means for placement upon a substantially flat horizontal surface;

a permanent magnet DC generator, having armature means and commutation means, disposed upon said base plate at one end thereof;

a fluid-powered internal combustion engine disposed at the other opposite end of said base plate and interconnected with said permanent magnet DC generator via a crankshaft disposed parallel to said base plate, so that DC power is generated by said permanent magnet generator when said fluid-powered internal combustion engine is running;

flexible coupling means for coupling said permanent magnet generator with said crankshaft means;

said fluid-powered internal combustion engine having:

a fuel tank means with a first tank for providing fuel for

1 6. The portable apparatus recited in Claim 5 wherein said base plate includes
2 a housing configured to enclose said permanent DC generator means coupled
3 with said crankshaft means.

4 7. The portable apparatus recited in Claim 5 wherein said fuel tank means
5 includes a second, auxiliary tank in fluid communication with said first tank for
6 providing supplemental fuel for running said internal combustion engine.

1003548-102401
104207-845000F